#### **AMENDMENT**

#### Amendments to the Specification:

Please amend the specification as follows:

Beginning on page 6, line 24; replace Table (A) with the following:

(A)

Primer	Sequence (5' - 3')	SEQ ID NO
MgRT1a	CCA GCA TTT CTG CCT TTG TGA	1
MgRT1B	CCA GCA TTT CTG CCT GTT TG	2
MgRT2	CAG CTC CTC CCA GAT TT	3
MgRT3a	ACC TGC CGG TAC TCC AGG	4
MgRT3b	ACC TGC CGG TAC TCC AGG TA	<u>5</u>
MgRT4	GCC CTT GGA CCC CAC AGG AA	<u>6</u>
MgRT5a	AGG ACT TTC ACA TAG CTG GTT TCA	7
MgRT5b	GGA CTT TCA CAT AGC TGG TTT C	8
MgRT6	TTT ATT CAG ATT TAA TTT C	9

Beginning on page 7, please replace Table (B) with the following:

(B)

Primer	Sequence (5' - 3')	SEQ ID NO
Mg1_RT1	CAA GAG ACA TGA TGA CTC TC	10
Mg1_RT2	TTC CTC AGG CTT GCA GTG CA	11
Mg1_RT3	GAG AGG AGG AGG TGG C	12
Mg1_RT4	GAT CTG TTG ACC CAG CAG TG	13
Mg1_RT5a	CAC TGG GTT GCC TCT GTC	14
Mg1_RT5c	CTG GGT TGC CTC TGT CGA G	<u>15</u>
Mg1_RT5d	GGG TTG CCT CTG TCG AGT G	<u>16</u>
Mg1_RT5e	GGC TGC TGG AAC CCT CAC	<u>17</u>
Mg1_RT6	GCT TGG CCC CTC CTC TTC AC	18
Mg1_RT7	GAA CAA GGA CTC CAG GAT AC	<u>19</u>

# Beginning on page 9; line 4; please replace the Table with the following:

Primer	Sequence (5' - 3')	SEQ ID NO
PBGD_RT2	CAT ACA TGC ATT CCT CAG GGT	20
PBGD_RT3	GAA CTT TCT CTG CAG CTG GGC	21
PBGD_RT4	TGG CAG GGT TTC TAG GGT CT	22
PBGD_RT10a	GGT TTC CCC GAA TAC TCC TG	23
PBGD_RT10d	TTG CTA GGA TGA TGG CAC TG	24
PBGD_RT12b	CCA AGA TGT CCT GGT CCT TG	25
PBGD_RT12c	CAG CAC ACC CAC CAG ATC	<u>26</u>
PBGD_RT12d	AGA GTC TCG GGA TCG TGC	27
PBGD_RT12e	AGT CTC GGG ATC GTG CAG	28
PBGD_RT12f	TCT CGG GAT CGT GCA GCA	29
PBGD_RT12g	ATG CAG CGA AGC AGA GTC T	30
PBGD_RT12h	CCT TTC AGC GAT GCA GCG	31
PBGD_RT13a	GTA TGC ACG GCT ACT GGC	32
PBGD_RT14a	GCT ATC TGA GCC GTC TAG AC	33
PBGD_RT15a	AAT GTT ACG AGC AGT GAT GC	34
PBGD_RT15b	TGG GGC CCT GCT GGA ATG	<u>35</u>
PBGD_RT15e	CAG TTA ATG GGC ATC GTT AAG	<u>36</u>
PBGD_RT15f	ATC TGT GCC CCA CAA ACC AG	<u>37</u>
PBGD_RT15g	GGC CCG GGA TGT AGG CAC	38
PBGD_RT15h	GGT AAT CAC TCC CCA GAT AG	<u>39</u>
PBGD_RT15i	CTC CCG GGG TAA TCA CTC	40
PBGD_RT15j	CAG TCT CCC GGG GTA ATC	41
PBGD_RT15k	TGA GGA GGC AAG GCA GTC	42
PBGD_RT151	GGA TTG GTT ACA TTC AAA GGC	43

Beginning on page 10, line 7, please replace the Table with the following:

PBGD Sense Primer	Sequence (5' - 3')	SEQ ID NO
Hu_PBGD_se	AGA GTG ATT CGC GTG GGT ACC	44
PBGD_8	GGC TGC AAC GGC GGA AGA AAA C	<u>45</u>
PBGD_8_F	TGC AAC GGC GGA AGA AAA C	<u>46</u>
PBGD_ATG-Eco	ATG TCT GGT AAC GGC AAT GC	<u>47</u>
PBGD Antiense Primer	Sequence (5' - 3')	SEQ ID NO
PBGD_3	TTG CAG ATG GCT CCG ATG GTG AA	<u>48</u>
PBGD_3.1_R	GGC TCC GAT GGT GAA GCC	<u>49</u>
PBGD_R	TTG GGT GAA AGA CAA CAG CAT C	<u>50</u>

Beginning on page 13, line 20 through page 14 please replace tables C and D with the following:

(C)

PCR-Primer	Sequence (5' - 3')	SEQ ID NO
MAGE-A1	GTA GAG TTC GGC CGA AGG AAC	<u>51</u>
MAGE-A1	CAG GAG CTG GGC AAT GAA GAC	<u>52</u>
MAGE-A2	CAT TGA AGG AGA AGA TCT GCC T	<u>53</u>
MAGE-A2	GAG TAG AAG AAG CGG T	<u>54</u>
MAGE-A3/6	GAA GCC GGC CCA GGC TCG	<u>55</u>
MAGE-A3/6	GAT GAC TCT GGT CAG GGC AA	<u>56</u>
MAGE-A4	CAC CAA GGA GAA GAT CTG CCT	<u>57</u>
MAGE-A4	TCC TCA GTA GTA GGA GCC TGT	<u>58</u>
MAGE-A10	CTA CAG ACA CAG TGG GTC GC	<u>59</u>
MAGE-A10	GCT TGG TAT TAG AGG ATA GCA G	<u>60</u>
MAGE-A12	TCC GTG AGG AGG CAA GGT TC	<u>61</u>

MAGE-A12	ATC GGA TTG ACT CCA GAG AGT A	<u>62</u>

(D)

PCR-Primer	Sequence (5' - 3')	SEQ ID NO
MAGE-A1	TAG AGT TCG GCC GAA GGA AC	<u>63</u>
MAGE-A1	CTG GGC AAT GAA GAC CCA CA	<u>64</u>
MAGE-A2	CAT TGA AGG AGA AGA TCT GCC T	<u>65</u>
MAGE-A2	CAG GCT TGC AGT GCT GAC TC	<u>66</u>
MAGE-A3/6	GGC TCG GTG AGG AGG CAA G	<u>67</u>
MAGE-A3/6	GAT GAC TCT GGT CAG GGC AA	<u>68</u>
MAGE-A4	CAC CAA GGA GAA GAT CTG CCT	<u>69</u>
MAGE-A4	CAG GCT TGC AGT GCT GAC TCT	<u>70</u>
MAGE-A10	ATC TGA CAA GAG TCC AGG TTC	71
MAGE-A10	CGC TGA CGC TTT GGA GCT C	<u>72</u>
MAGE-A12	TCC GTG AGG AGG CAA GGT TC	<u>73</u>
MAGE-A12	GAG CCT GCG CAC CCA CCA A	<u>74</u>

Beginning on page 29, line 11, please replace with the following:

The amplification of PBGD mRNA was performed in a separate real-time PCR in 20 μl with 1μl of cDNA, 5mM MgCl<sub>2</sub>, 0.5μM of sense primer (5'- AGA GTG ATT CGC GTG GGT ACC -3' (SEQ ID NO:44), 0.5 μM of antisense primer (5' - TTG GGT GAA AGA CAA CAG CAT C-3' (SEQ ID NO:50) and 2 μl of FastStart DNA Master SYBR Green I (Roche). The protocol was modified and follows: initial enzyme activation for 5 min at 95°C denaturation for 15 sec at 95°C, annealing at 60°C for 10 sec and extension for 20 sec at 72°C. After completion of the PCR the products were subjected to a melting curve analysis as described before. In total we were able to screen two groups of patients with prostate cancer after radical prostatectomy:

(a) 21 patients with attested biochemical relapse after radical prostatectomy defined as rising serum PSA level > 0.5ng/ml in the absence of any signs for local tumor growth. These patients bear a high risk for developing

metastatic disease because of systemic spread of disseminated PSA producing tumor cells.

(b) 18 patients without biochemical relapse after radical prostatectomy defined as serum PSA level < 0.5ng/ml and presentation of a low risk profile for systemic tumor spread (i.e. Gleason score 6 and preoperative serum PSA level 20ng/ml and tumor stage pT<sub>1</sub> or pT<sub>2</sub>, pN<sub>0</sub>, R<sub>0</sub>) and postoperative survival > 30 months at the time of sample collection. In these patients the development of metastatic disease should be an unlikely event.

Beginning on page 32, please replace Table 2 with the following:

Primer	Sequence (5' - 3')	SEQ ID NO
MgRT1a	CCA GCA TTT CTG CCT TTG TGA	1
MgRT1B	CCA GCA TTT CTG CCT GTT TG	2
MgRT2	CAG CTC CTC CCA GAT TT	<u>3</u>
MgRT3a	ACC TGC CGG TAC TCC AGG	4
MgRT3b	ACC TGC CGG TAC TCC AGG TA	<u>5</u>
MgRT4	GCC CTT GGA CCC CAC AGG AA	<u>6</u>
MgRT5a	AGG ACT TTC ACA TAG CTG GTT TCA	7
MgRT5b	GGA CTT TCA CAT AGC TGG TTT C	<u>8</u>
MgRT6	TTT ATT CAG ATT TAA TTT C	9

Beginning on page 34, please replace Table 4 with the following:

Primer	Sequence (5' - 3')	SEQ ID NO
Mg1_RT1	CAA GAG ACA TGA TGA CTC TC	10
Mg1_RT2	TTC CTC AGG CTT GCA GTG CA	11
Mg1_RT3	GAG AGG AGG AGG TGG C	12
Mg1_RT4	GAT CTG TTG ACC CAG CAG TG	13
Mg1_RT5a	CAC TGG GTT GCC TCT GTC	14
Mg1_RT5c	CTG GGT TGC CTC TGT CGA G	<u>15</u>
Mg1_RT5d	GGG TTG CCT CTG TCG AGT G	<u>16</u>

Mg1_RT5e	GGC TGC TGG AAC CCT CAC	17
Mg1_RT6	GCT TGG CCC CTC CTC TTC AC	18
Mg1_RT7	GAA CAA GGA CTC CAG GAT AC	<u>19</u>

### Beginning on page 36, please replace Table 6 with the following:

Primer	Sequence (5' - 3')	SEQ ID NO
PBGD_R	TTG GGT GAA AGA CAA CAG CAT C	<u>50</u>
PBGD_3	TTG CAG ATG GCT CCG ATG GTG AAG	<u>75</u>
PBGD_3.1R	GGC TCC GAT GGT GAA GCC	<u>49</u>
PBGD_RT1	AAC TCC TGC TGC TCG TCC AG	<u>76</u>
PBGD_RT2	CAT ACA TGC ATT CCT CAG GGT	<u>20</u>
PBGD_RT3	GAA CTT TCT CTG CAG CTG GGC	<u>21</u>
PBGD_RT4	TGG CAG GGT TTC TAG GGT CT	<u>22</u>
PBGD_RT5	TTG TGC CAG CCC ATG CGC TG	77
PBGD_10a	GGT TTC CCC GAA TAC TCC TG	<u>23</u>
PBGD_10b	AGC TTC CGA AGC CGG GTG	<u>78</u>
PBGD_10d	TTG CTA GGA TGA TGG CAC TG	<u>24</u>
PBGD_12a	CTT GGC TGC CAC TTC CAC G	<u>79</u>
PBGD_12b	CCA AGA TGT CCT GGT CCT TG	<u>25</u>
PBGD_12c	CAG CAC ACC CAC CAG ATC	<u>26</u>
PBGD_12d	AGA GTC TCG GGA TCG TGC	<u>27</u>
PBGD_12e	AGT CTC GGG ATC GTG CAG	<u>28</u>
PBGD_12f	TCT CGG GAT CGT GCA GCA	<u>29</u>
PBGD_12g	ATG CAG CGA AGC AGA GTC T	<u>30</u>
PBGD_12h	CCT TTC AGC GAT GCA GCG	<u>31</u>
PBGD_13a	GTA TGC ACG GCT ACT GGC	<u>32</u> .
PBGD_14a	GCT ATC TGA GCC GTC TAG AC	<u>33</u>
PBGD_14b	GCA GGG ACA TGG ATG GTA G	<u>80</u>
PBGD_15a	AAT GTT ACG AGC AGT GAT GC	<u>34</u>
PBGD_15b	TGG GGC CCT GCT GGA ATG	<u>35</u>

PBGD_15c	AGC CAA CTG GGG CCC TCG	<u>81</u>
PBGD_15d	TAA GCT GCC GTG CAA CAT CC	82
PBGD_15e	CAG TTA ATG GGC ATC GTT AAG	<u>36</u>
PBGD_15f	ATC TGT GCC CCA CAA ACC AG	<u>37</u>
PBGD_15g	GGC CCG GGA TGT AGG CAC	<u>38</u>
PBGD_15h	GGT AAT CAC TCC CCA GAT AG	<u>39</u>
PBGD_15i	CTC CCG GGG TAA TCA CTC	<u>40</u>
PBGD_15j	CAG TCT CCC GGG GTA ATC	41
PBGD_15k	TGA GGA GGC AAG GCA GTC	<u>42</u>
PBGD_151	GGA TTG GTT ACA TTC AAA GGC	43

# Beginning on page 42, please replace Table 10 with the following:

Primer	Sequence (5' - 3')	SEQ ID NO
Mg10_se1	CTA CAG ACA CAG TGG GTC GC	<u>83</u>
Mg10_se2	GCA GGA TCT GAC AAG AGT CC	84
Mg10_se3	ATC TGA CAA GAG TCC AGG TCC	<u>85</u>
Mg10_anse1	TGG GAG TGT GGG CAG GAC T	<u>86</u>
Mg10_anse2	CGC TGA CGC TTT GGA GCT C	87
Mg10_anse3	ATC CTC CTC CAC AGC CAG G	88
Mg10_anse4	GGA GCT GGT GGA AGT GGA TG	89
Mg10_anse5	GCT TGG TAT TAG AGG ATA GCA G	90
Mg10_anse6	CAT CAG CAG AAA CCT CCT CTG	91
Mg10_anse7	AAT GGA AGG GAA GCA ACG ACC	92
Mg10_anse8	GGA GCC CTC ATC AGA TTG ATC	93